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 Photovoltaic Specialists Conference, 1997., Conference Record of the Twenty-
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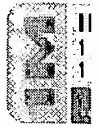
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Load sharing operation of a 14 kW photovoltaic/wind hybrid power system

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Dept. of Electr. Eng., Kongju Nat. Univ., Chungnam, South Korea;

This paper appears in: Photovoltaic Specialists Conference, 1997., Conference Record of the Twenty-Sixth IEEE

Meeting Date: 09/29/1997 - 10/03/1997

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Reference Cited: 6

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Abstract:

In this paper, a design procedure for photovoltaic/wind hybrid power generation is presented. The hybrid system is composed of a **DC/DC converter** for photovoltaic energy conversion, a **DC/DC converter** for wind energy conversion, a four switch inverter converting the combined DC power to the AC power and a **backup power battery**. Here, it is very important to select the desired **battery** size to meet the output and economic cost aspect since this system utilizes a fluctuating and finite resource. The purpose of this paper is to develop a sizing method for the PV/wind hybrid system with load sharing operation. The method demonstrates a simple way to determine the desired **battery** size that satisfies the energy demand from the photovoltaic and wind natural source. The proposed method is verified on a hybrid power system including a 10 kW PV generator and a 4 kW wind generator established in Cheju island, Korea

Index Terms:

DC-DC power converters invertors load (electric) photovoltaic power systems switching wind turbines 10 kW 14 kW 4 kW Cheju island DC/DC converter Korea battery selection combined DC power conversion economic cost energy demand finite energy four switch IGBT inverter load sharing operation photovoltaic/wind hybrid power system method wind energy conversion

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